



**Mobile-Vision, Inc.**

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Boonton, NJ 07005

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[www.L-3Com.com/mv](http://www.L-3Com.com/mv)



## **PROPOSAL**

***Submitted  
To:***

**Paradise Valley Police Department**

**6433 Lincoln Blvd  
Paradise Valley, AZ 85253**

***Reference:***

**Proposal for Fixed  
License Plate Reader Hardware and  
Software**

***Attention:***

**Lieutenant Mike Cole**

***Date:***

**Monday, July 21, 2014**



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March 31, 2013

Mike Cole  
Paradise Valley Police Department  
6433 East Lincoln Ave  
Paradise Valley, AZ 85253  
RE: License Plate Reader Hardware and Software

Mike:

L-3 Mobile-Vision is pleased to provide Paradise Valley Police Department the enclosed proposal to implement L-3 Mobile-Vision's AlertVU Fixed LPR systems at eleven intersection locations identified by the town. This proposal includes the hardware, software and installation required to successfully install the AlertVU Fixed LPR systems at the identified locations. This proposal does not address nor include any costs or requirements for permitting, interagency agreements for infrastructure uses, network hardware, ongoing wireless network costs and any other items not specifically included in this proposal.

I thank you and the Town of Paradise for your continued support and interest of L-3 Mobile-Vision.

Sincerely,

Mike Turner  
Regional Sales Manager- West  
973-255-7104  
Email: [Mike.Turner@L-3com.com](mailto:Mike.Turner@L-3com.com)





**Fixed LPR**

## **System Overview**



**Mobile-Vision, Inc.**





## I. INTRODUCTION

The Town of Paradise Valley Police Department is interested in implementing Automated License Plate Recognition (ALPR) technology as a means of enhancing safety and security. This proposal addresses the requirements to design and implement a fixed LPR solution or geo-fence surrounding the Town of Paradise. Since almost all crime in the town is transient, migrating from other cities, providing a geo-fence of fixed LPR locations will provide the Town a sophisticated tool that will impede and reduce criminal activity. The fixed LPR layer is the primary and first tier system to capture and alert based on certain conditions with the 10 mobile units providing a secondary layer when vehicles are found inside the geo-fence area. Combined, the AlertVU LPR system is a tightly knit LPR system which will provide the town with a state of the art tool which can increase visibility, reduce crime, share data with neighboring agencies and provide valuable investigatory data.

ALPR is a technology that automatically reads license plate numbers and letters, as the car passes the camera, and compares the tag to various lists of approves and/or not approved vehicles. Alerts can be automatically forwarded to proactively take appropriate action and the data interrogated "post event" to locate specific plates, identify suspect behaviors and analyze traffic flows. The Town of Paradise Valley is uniquely suitable for "perimeter geo-fencing" with ALPR.

L3 Communications Mobile-Vision, Inc. proposes the use of its industry leading AlertVU ALPR technology uniquely capable of reading difficult plates at extreme angles and ranges combined with its industry leading AlertVU Back Office solution to automatically manage and administer the records and alerting process.

## II. SOLUTIONS OVERVIEW

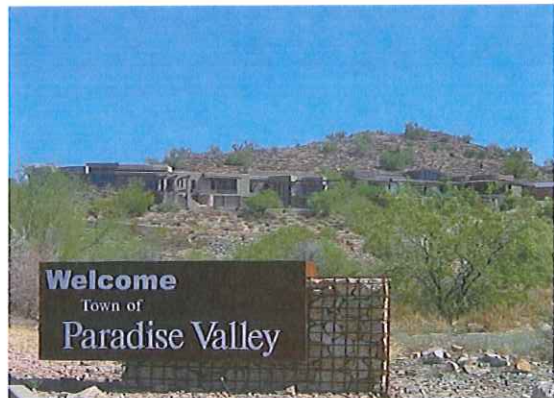
**Traffic Flow Monitoring Solution:** The system will monitor the 11 locations with arrays of ALPR cameras.

The cameras read plate data and capture associated images as the vehicles pass monitored locations. This data is continuously transferred to the AlertVU Back Office system located at the Paradise Valley Police Department to facilitate enterprise operation.

The solution has a demonstrated capability to read the passing license plates with the high accuracy required.



results from all the ALPR units to be automatically aggregated, easily accessed/searched (through a WEB based interface) and simply analyzed and leveraged.

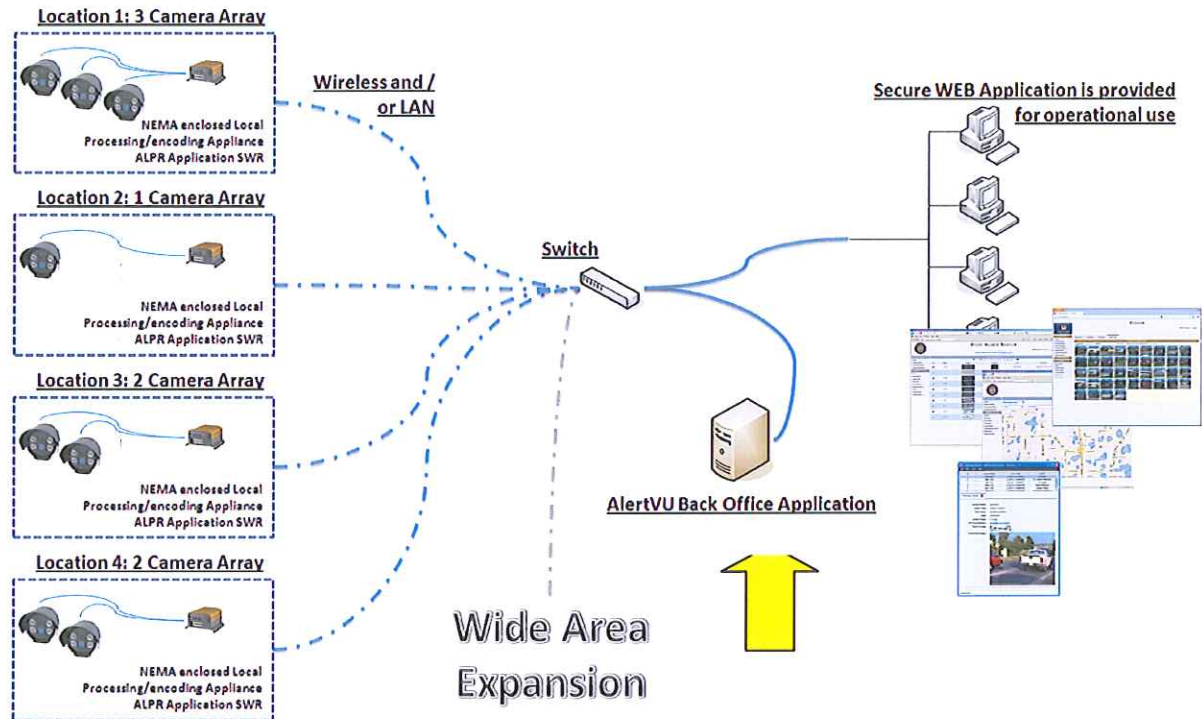


The diverse characteristics of US license plates (patterns and spectral characteristics) can make reading them at any significant angle and range a challenge. However, by leveraging the extensive L-3 assets, we have recognized the associated issues and developed a solution uniquely capable of reading plates from across the county. This involves multiple algorithmic approaches as well as high end camera equipment.

In addition to a differentiated ability to reliably read plates, AlertVU provides an unprecedented leap forward in **Using the Plates** a fully functional Back Office solution that allows for the



**Solutions Architecture:** Every location contains an array of cameras and an ALPR encoding/processing appliance which in turn feeds a single enterprise server application. The application is hosted on the Town of Paradise owned servers and is accessed through a simple web interface.



#### Contents of the Read Record:

- License Plate
- Timestamp
- Camera Location
- Plate image
- Two overview images: One of the License Plate and a second Color overview of the rear of the vehicle
- Automated evidence management, access control, and data exploration is automatically managed through the server back office.
- The data can be set to be automatically purged from the system as defined by the user.



### Capacity and Scalability:

Each Location contains ALPR cameras and a processing/encoding appliance (within a NEMA rated enclosure). The system is designed to accommodate high speed traffic flows and is restricted in capacity only by the server hardware

## III. DIFFERENTIATING FEATURES AND FUNCTIONS

### Exceptional Performance

**AlertVU** Automatic License Plate Recognition (ALPR) represents the next generation of the ALPR solution. It utilizes a state-of-the-art plate recognition technology that enables multiple "plate image streams" to be processed through multiple recognition engines concurrently. This means many more "views" of the plate (however only one reported read) and enables many diverse recognition techniques to be applied. Resulting in a quantum improvement in recognition performance. Similar to a half dozen referees viewing the same



play in football, each opinion is integrated into the whole and the cumulative accuracy far exceeds what is capable with a single view or engine.

This allows plates to be read that others might find difficult or impossible.



**The L3 AlertVU camera technology and Specialty Plates:** Each specialty plate can have unique graphical and spectral properties that can restrict the performance of conventional ALPR cameras. Using the industries only optics lab specifically modified to analyze license plates, L3 has optimized an array of cameras that provide unique capabilities. These cameras leverages combined with the unique ALPR algorithms and processing methodology allow the solution to provide unparalleled off axis and range capabilities. Enabling unprecedented flexibility in mounting position and sightline locations (i.e. the camera is not need not be restrictively mounted directly alongside or over the lane). Rather the roadside mounting locations can be significantly "off the road" and with unprecedented "look angles" and ranges, thus opening up many more mounting location options.



What this means to you:

- With the L3 solution you can expect to be able to mount cameras to existing poles that may be well off the roadway. Something that is not viable with the competitor's solutions.
- All the while maintaining high read rates (even at these extreme angles).
- And the reading of more plates that are damaged or sun faded as well as the assortment of specialty plates.

### Fully Functional, Integrated Back Office Solution

The solution also provides the most comprehensive and functional Back Office solution available. It allows for the results from all the ALPR systems to be aggregated, searched and historically analyzed. Further the Back Office system leverages L-3's industry leading ICV Back Office Digital Evidence (DES Pro) solution allowing for a centralized data management system, with the seamless updating of roadside systems and/or vehicles and web services based access.

The AlertVU back office solution is the central control point providing the ability to search historical reads to support investigations and providing real time alerts to interdict ongoing criminal activity.



The data is passed directly to the Back Office application, which resides on the server, and can be configured to alert any necessary person (via text, e-mail or direct alert on any LAN connected PC) as desired by the agency.

The result is the best ALPR solution operating on the industry's most capable back office infrastructure to provide the best solution for the Agency.

The L3 AlertVU Back Office Advantage:

- Manage your Assets: Remote management and updating of remote roadside equipment. So that the system can be maintained with limited field access.
- Report on read activity by time of day, day of week, etc. so traffic flow information can be gleaned.
- Don't just read the plates, use the Plate Data:
  - Intelligently Search for Plates: Perform full or partial plate search, search location via simple map interface, search date/time range, search frequency of occurrence, search "hot list", search via "special" lists, uniquely analyze in any combination and order.
  - Uniquely automated "Find Associates" (find any plates are found in proximity to the plate of interest – sometimes referred to as convoy analysis).
  - Display the reads/hits on a Map, as a List, even uniquely as an "Interactive Index Print" (where large overview images are displayed on a page).
  - Reuse the data by simply folding the output into "special interest" lists for further analysis. Easily perform analytics and automatically find plates associated with a particular plate of plate group.
  - Perform suspect pattern analysis to highlight behaviors and suspect vehicles prior to unwanted activity occurring.
- Real Time Live Alerting to field (Patrol Car), and/or to any Desktop PC, and/or to Dispatch (e-mail, text, "PC pop up". Not a "dumb" broadcast alert this is "Intelligent Targeted Alerting" based on Specific lists of Interest to individuals with a need for the information.
- Special automated alerts for AMBER / BOLO's, etc. and "special" purpose definable hot lists with specific user defined alerting rules.
- Discreet alerts can be sent to specified users only.



that

that





## V. SOLUTIONS ARCHITECTURE

Based on the requirements the following represents the proposed solution design.

### LOCATION DETAILS

The Town of Paradise Valley is interested in monitoring traffic flow activity through the automatic reading of license plates (LPR). There are 9 locations that will need to be monitored which are listed below.

<i>Number</i>	<i>Location</i>	<i>Direction of travel</i>	<i>Number of Lanes</i>
<b>1</b>	N Tatum & McDonald	North and East Bound	3 Lanes
<b>2</b>	E Lincoln & Palo Cristi/36th	2 East/ one South (PV Traffic mast)	3 Lanes
<b>3</b>	E Doubletree & North Tatum	East/West Bound	2 Lane
<b>4</b>	E Lincoln & N Scottsdale Street	West Bound	2 Lanes
<b>5</b>	E McDonald & North Scottsdale	West Bound	2 lanes
<b>6</b>	E Doubletree Ranch & N Scottsdale	West Bound	1 Lane
<b>7</b>	N 64 <sup>th</sup> (Invergordon) & E Camelback	North Bound	1 Lane
<b>8</b>	E Stanford & N32nd	East Bound	1 Lane
<b>9</b>	E Stanford & N 40th	West Bound	1 Lanes
<b>10</b>	N 40 <sup>th</sup> St South of E Stanford	North Bound	1 lane
<b>11</b>	N Tatum & E Shea	South	3 Lanes
<b>Total</b>			<b>20 lanes</b>

Each processor located in each intersection will house a wireless data modem for backhaul connectivity.



## Location 1 North Tatum & McDonald Drive

Traffic signal mounted LPR cameras installed to capture plates heading north and east bound on Lincoln Street.

One pole mounted two camera array Northbound and one pole mounted single camera array for eastbound will be provided with the communications link being wireless cellular modem to the police department.



### Equipment:

North Bound (1) 2 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

East Bound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 2 E Lincoln & N 36<sup>th</sup> (Palo Cristi)

Traffic signal mounted LPR cameras installed to capture plates heading east bound on McDonald Street.

A pole mounted two camera array for Westbound and one pole mounted single camera array for southbound will be provided with the communications link being wireless cellular modem to the police department.



### Equipment:

West Bound (1) 2 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

South Bound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.



### Location 3: E Doubletree Ranch E of Tatum Blvd

Traffic signal mounted LPR cameras installed to capture plates heading eastbound and westbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



#### Equipment:

North Bound (1) 2 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 4: E. Lincoln & N Scottsdale

Traffic signal mounted LPR cameras installed to capture plates heading westbound 2 lanes existing.

A pole mounted two camera array will be provided with the communications link being wireless cellular modem to the police department.

North Bound



Equipment:

Westbound (1) 2 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 5: East Mc Donald & North Scottsdale

Traffic signal mounted LPR cameras installed to capture plates on McDonald Street.

A pole mounted two camera array will be provided with the communications link being wireless cellular modem to the police department.



Equipment:  
Westbound (1) 2 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.



## Location 6: East Doubletree Ranch & North Scottsdale

Traffic signal mounted LPR cameras installed to capture plates heading westbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



### Equipment:

Westbound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure. Must be north of camelback (stanford)

## Location 7: North 64<sup>th</sup> & E Camelback

Traffic signal mounted LPR cameras installed to capture plates heading northbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



Equipment:

Northbound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 8: East Stanford & North 32nd

Traffic signal mounted LPR cameras installed to capture plates heading eastbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



Equipment:

Eastbound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.



## Location 9: East Stanford & North 40th

Traffic signal mounted LPR cameras installed to capture plates heading westbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



### Equipment:

West Bound(1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 10: North 40<sup>th</sup> South of E Stanford

Traffic signal mounted LPR cameras installed to capture plates heading northbound.

A pole mounted single camera array will be provided with the communications link being wireless cellular modem to the police department.



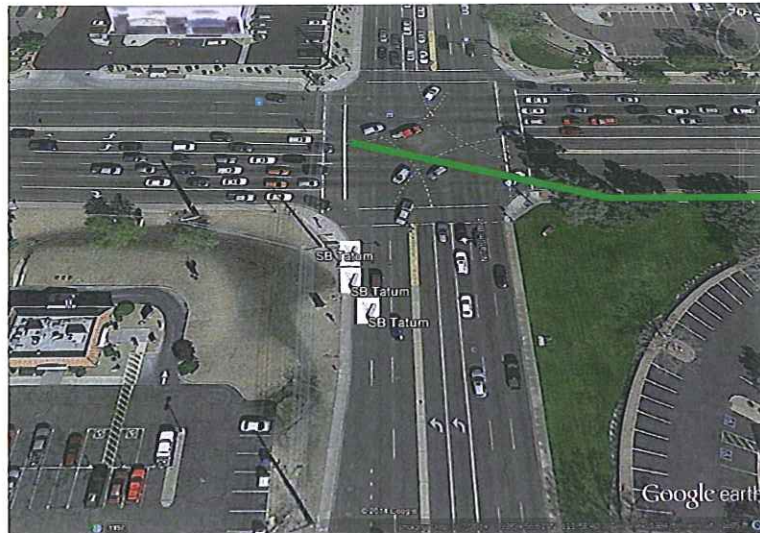
### Equipment:

Northbound (1) 1 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.

## Location 11: North Tatum & Shea

Traffic signal mounted LPR cameras installed to capture plates heading southbound.

A pole mounted three camera array will be provided with the communications link being wireless cellular modem to the police department.



### Equipment:

Southbound (1) 3 Camera LPR Positional Array with integrated CPU, and LPR application software within a NEMA enclosure.



## VI. EQUIPMENT SUMMARY

Based on the requirements the following represents the solution equipment.

L-3 Assembly #	QTY	Roadside Equipment
LAASYRPR3850CAM	1	<b>AlertVU 3 Camera Positional Array:</b> L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Lifetime Software License
LAASYRPR2850CAM	5	<b>AlertVU 2 Camera Positional Array:</b> L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Lifetime Software License
LAASYRPR1850CAM	7	<b>AlertVU 1 Camera Positional Array:</b> L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Lifetime Software License

### ALERTVU INTER-AGENCY INTEROPERABILITY

License plates (and criminals) do not respect geographic barriers of towns city's and counties. In order to optimally leverage LPR in law Enforcement it is necessary to share data across agencies regardless of vendor. L-3 have endeavored to facilitate the sharing of content the the maximaum extent possible through our uniquely interoperable Back Office solution.

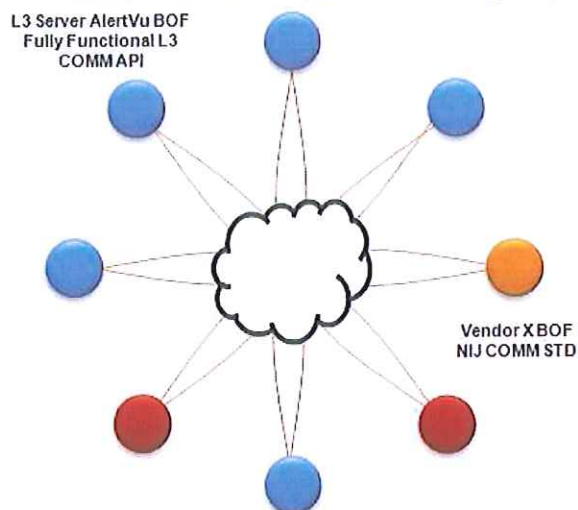
- 1) **INTERNAL AGENCY SYSTEM INTEROPERABILITY:** In order to provide interoperability within an agency the AlertVU Back office solution accepts content from diverse LPR systems and is not restricted to solely L-3 provided solutions. As long as the content can be exported as a standard CSV file the server will accept the content. And consequently legacy/mixed fleets can be supported.
- 2) **INTRA-AGENCY DATA SHARING:** The Law Enforcement community has begun to accept LPR as a usefull tool for law enforcement. The ability to historically search for plate reads (location, etc.) and identify associations (plates, locations, time, etc.) has proven to be instrimental in crime solving. In order to maximize the effectiveness of plate analytical analysis it is necessary to share content across multilple agencies. And this consequently implies a means of server interoperability independent of vendor.
  - a. **ALERTVU AGENCY INTEROPERABILITY (other agencies with L-3 Servers):** The L-3 AlertVU servers have a unique inter-agency interoperability function that allows secure data sharing directly through the AlertVU application to any consenting agency (through the AlertVU Data API). Functionally the solution operates just as the user would on the local server (with all the unique L-3 AlertVU back Office functions, features and display capabilities). However the search is automatically pertformed and compiled across designated AlerVU servers.
  - b. **OTHER VENDORS AGENCIES INTEROPERABILITY (other agencies with non-L-3 Servers):** The industry (through NIJ) have defined a set of standard interoperability data sharing API call. L-3 have implemented these with the application also. This allows for a plate search to be performed on any NIJ compliant server. The functionality is constrained to the NIJ defined data sharing set.

The unique capabilities of the AlertVU server allows for hybrid sharing with a combination of AlertVU and non-L-3 servers. It also allows for the unique ability to have a 'consortium" architecture structured in either a distributed or centralized model (of a hybrid).



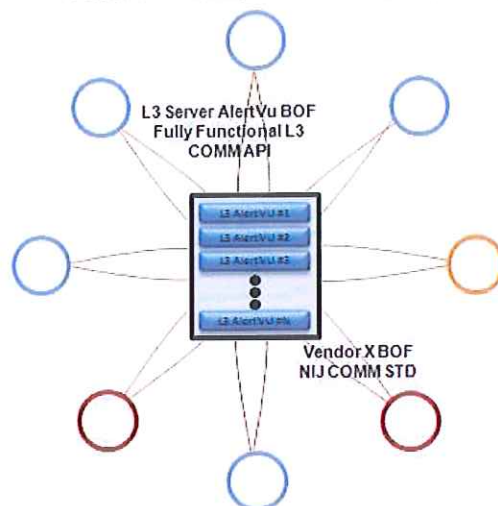
## Distributed Server Array

Distributed Content Stored in each Agency



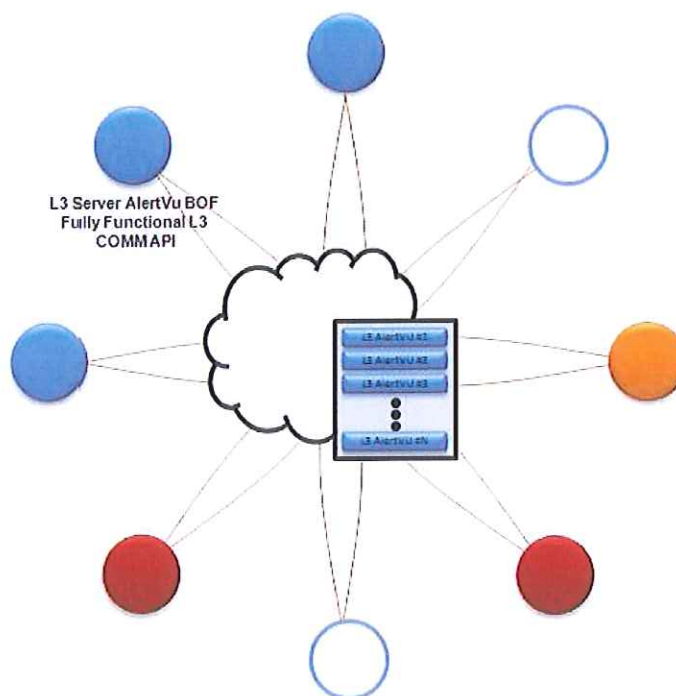
## Centralized Server

Content is Stored in a Central Location



*Inter-Agency Sharing available for both L-3 AlertVU (via the L-3 API) and Other Vendors (via the NIJ Std).*

As the sharing is performed through the defined set of API's, a hybrid architecture with a mix of L-3 and "other" systems architected using both distributed (self hosted) and centralized (datacenter) management is some is also supported.



## SAMPLE IMPLEMENTATION PLAN THE TOWN OF PARADISE VALLEY POLICE DEPARTMENT

### SCOPE OF WORK

#### Installation

L-3 Mobile-Vision proposes installation of the LPR systems as described within this proposal. Installation costs can only be determined once vehicles and sites of fixed systems are determined. L-3 Mobile-Vision would utilize as many customer provided, existing assets as possible such as electrical circuits and network support at the proposed equipment locations.

#### Equipment

L-3 Mobile-Vision will provide the LPR camera systems (cameras, roadside CPU's and application software) mobile client software and hardware as well as the back office server and management application.

#### Communications

L-3 Mobile-Vision has not included communications infrastructure in this initial offering. This can be address as required.

#### \*Critical Path Element

			WEEKS							
	TASK	DURATION		2 - 4	5-6	7	8	9	10	11-12
	Kickoff Meeting	1d								
	Project Review Meeting	1d								
	Site Review Meeting / Site Walks and Surveys	1d								
	Project Build	4w								
	Network Preparation	4w								
	Equipment Delivered									
	Schedule Vehicles for Install	3w								
	Vehicle Installations	1w								
	Install remaining vehicles	1w								
	Vehicle Installations Complete									
	Install Server and Back Office Software Application	1d								
	Schedule Training	1d								
	Training	2d								
	Compliance Testing	2d								
	Project Completed									

	Responsibility
	L-3 Responsibility





	Joint Task
	Milestone

Please note that this schedule is provided as information only and upon contract award will be tailored to fit the specific needs and operations of the Town of Paradise Valley Police Department.

#### 1. Kickoff Meeting (Critical Path):

After receipt of a Purchase Order and any associated contract, L-3 Mobile Vision will hold a Project Kickoff Meeting to review the following:

- Contract documents
- Project Manager assignment and briefing
- Delivery/Production schedules
- Training requirements
- Installation requirements

#### 2. Project Review Meeting:

It is recommended that PV PD host its own project review meeting with all required personnel to discuss the following:

- Assign Project Manager(s)
- Review requirements of the Contract
- Discuss availabilities off required staff
- Review LPR operating policies
- Discuss any scheduling conflicts with proposed Project Plan
- Discuss any Town network issues and their resolution

#### 3. Site Review / Site Walk Meeting (Critical Path):

A Site Review meeting will take place and will include, at a minimum, L-3 Mobile Vision Project Manager and the PV PD's Project Manager. The Site Review Meeting will consist of a review and discussion of:

- Location of Wireless Access Points (if required)
- Review of vehicles and installation requirements
- Location of server at office locations
- Ability of required network cabling to be provided by the PV PD at desired locations for Wireless Access Points
- Review of proposed Project Plan and discussion of any possible amendments
- Review of proposed installation schedule and discussion of any possible amendments
- Review of proposed training plan and discussion of any possible amendments
- City to plan for, apply for and obtain any permits or legal authorizations for installation and mounting of equipment from:
  - Private property owned property/land
  - Public Utility Company owned property/land
  - State owned or County owned property/land
- City to plan and budget for any police or public workers required (if any) for the installation of equipment that may require traffic management

#### 4. Project Build:



L-3 Mobile Vision will begin production of all in-car and server related hardware. In-car hardware will be configured and tested to ensure functionality. Server will be configured and tested for functionality and compliance to L-3 Mobile Vision standards.

#### **5. Network Preparation (Critical Path):**

PV PD will ensure that all required network connections are available for installation of the Wireless Access Points and Digital Evidence Pro server. At this time PV PD should also confirm that all workstations where LPR information from the Digital Evidence Pro back office server will be accessed have proper network connectivity.

#### **6. Equipment Delivered:**

Delivery of the Digital Evidence Video System Training, Wireless Access Points, Digital Evidence Pro application and associated hardware to PV PD will begin.

#### **7. Schedule Vehicles for Installation:**

During this phase the PV PD will need to schedule vehicles for installation. Installation time of the In car equipment takes approximately 2-3 hours per vehicle. It is important to note that vehicle installation schedule may vary greatly based on the availability of vehicles. Should vehicles be unavailable for extended periods of time, this schedule could change.

At this time, the City will also ensure that IT technicians are available for the on-site installation and training program.

#### **8. (and 9) Install Vehicles:**

At this time, the AlertVU LPR will be configured to operate per the Town of Paradise Valley Police Department's specific requirements. All equipment will be installed in the vehicle according to requirements of PV PD. This will guarantee there will be no conflict with the operation or other equipment installed in the vehicle.

**As well, each car will be tested and confirmation of working equipment i.e. light bar, radio etc. Post install, the car will go through a post test to verify that all equipment is still operational.**

#### **10. Vehicle Installation Complete (Estimated Completion):**

At this time all initial in car equipment and system will have been installed in the Town of Paradise Valley Police vehicles. This length of this process is independent upon vehicle availability.

#### **11. Install Server:**

An L-3 Mobile Vision Field Engineer will arrive at the Town of Paradise Valley Police department to install the Digital Evidence Pro back office server application. All hardware will be assembled, configured and tested at this time. All Wireless Access Points and DVR's will be configured to communicate with each other and the back office server.

It is required that a representative from the PV PD's IT Department is available to assist in connectivity of the Digital Evidence Pro back office server application to the Town of Paradise Valley Police Network. The L-3 Mobile Vision Field Engineer will configure the back office application software to operate within the policies stated by the PV PD in the RFP documents and final Contract. An overview of the Digital Evidence Pro back office server and software will be given to the PV PD's IT representative (AES) so that this person has a





complete understanding of how the Digital Evidence Pro back office server will interact within the Town of Paradise Valley Police Network.

#### **12. Schedule Training (Critical Path):**

At this time the EM PD will determine Training Officers, IT Staff and Police Administrative Staff that will be required to attend training. These individuals will need to be available at the times agreed upon during the Site Review Meeting. They will be trained on the LPR and Digital Evidence Pro back office solution by L-3 Mobile Vision trainer.

#### **13. Training:**

Training will be provided to PV PD Personnel based on schedules and criteria outlined by both the PV PD and L-3 Project Managers.

#### **14. Compliance Testing (Critical Path):**

L-3 Mobile Vision will check the in-car hardware and Digital Evidence Pro back office solution to ensure proper configuration and operation. All aspects of usage will be tested and compliance to the PV PD's requirements as listed in the RFP and Final Contract documents will be tested. This compliance testing is to ensure that the backend infrastructure has been fully implemented and the system is installed and delivered to meet your requirements.

#### **15. Project Completed:**

Project has been officially completed as determined by Project Managers from the Town of Paradise Valley and L-3 Mobile Vision. At this time all in-car hardware has been installed and configured in compliance with the Town of Paradise Valley Police department operating policies and as addressed in the RFP and Final Contract documents. The Digital Evidence Pro back office server has been successfully installed, configured and connected to the Town of Paradise Valley Police Network. All PVPD staff has been trained by an L-3 Mobile Vision trainer.





## CONTRACT

This CONTRACT AND AGREEMENT, made and entered into this DATE by and between the City, a municipal corporation, Party of the First Part, hereinafter termed the "CITY", and L-3 Mobile-Vision, Inc. party of the Second Part, hereinafter termed the "CONTRACTOR".

### WITNESSETH:

WHEREAS, the City, in the manner provided by law, has examined and canvassed the quotation submitted, and has determined and declared the above-named Contractor to be the most responsible party, on the above-described project, and has duly awarded this contract to said Contractor, for the unit prices named in the quotation.

NOW, THEREFORE, for and in consideration of the mutual agreements and covenants herein contained, the parties to this contract have agreed, and hereby agree, as follows:

1. The contractor shall, in a good and first class, workmanlike manner, at his own cost and expense, furnish all specified materials, equipment and supplies required to provide the City with said equipment in strict accordance with this DATE quotation, and are made a part of this contract as fully as if the same were herein set out in length, with the following additions and/or exceptions: none.
2. The amount of CONTRACT shall be \$330,585.00; see Attachment A for detailed listing.
3. Payments shall be made to the Contractor as stated in the quotation document if the City's duly authorized representative has determined that satisfactory equipment was delivered.
4. This contract shall not be assigned, sublet or conveyed in any manner by one party without the express written consent of the other.
5. The contractor shall assume all risks incident to or in connection with any of it's activities or operations during the term of this contract and shall be solely responsible for all accidents or injuries of whatsoever nature or kind to persons or property caused by it's operations hereunder, and shall indemnify, defend and save harmless the City, it's authorized agents and representatives, from any penalties or any violations of any law, ordinance or regulation affecting it's operations and from any and all claims, suits, lawsuits, damages or injuries to persons or property of whatsoever kind or nature arising directly or indirectly out of the operations of contractor hereunder or resulting from the carelessness, negligence or improper conduct of the contractor or any of it's agents or employees.
6. If contractor shall make default in the performance of any covenant or agreement on the part of it to be performed under the terms of this contract, the City, in addition, to all other remedies provided by this contract or now or hereafter provided by law, may at it's option, give contractor notice in writing that it declares this contract and all rights hereunder granted to contractor terminated, or it may pursue other remedies including but not limited to specific performance and damages.
7. On delivery of equipment, but prior to the acceptance thereof by the City, it shall be the duty of the agency engineer, or other appropriate person, to determine that said contract has been fully complied with, and upon making such determination, said official shall make his final certificate to the City. The contractor shall insure the obligations incurred by him in connection with the delivery of said equipment have been fully paid and settled; said information shall be in the form of an affidavit, which shall bear the approval of the surety on the contract bonds for payment of the final estimate to the Contractor; thereupon, the final estimate will be approved and paid.
8. A sworn, notarized statement must be signed before this contract will become effective.

The term "Contract Documents" means and includes the following:

- |  |   |
|--|---|
| A. Quotation provided by L-3 Mobile-Vision | C. L-3 Mobile-Vision's Warranty Documents |
| B. Purchase Order provided by Purchaser    | D. This Agreement                         |

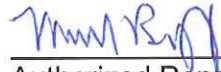


This Agreement shall be binding upon all parties hereto and their representative heirs, executors, administrators, successors, and assigns.

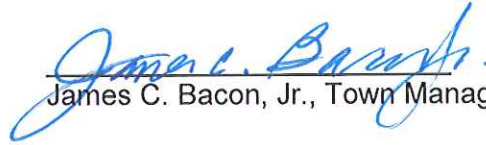
IN WITNESS WHEREOF, the parties hereto have set their hands this       day of       , 2014.

AWARDED CONTRACTOR:

TOWN OF PARADISE VALLEY  
a municipal corporation



Authorized Representative Signature



James C. Bacon, Jr., Town Manager

MICHAEL BIRRIDGE VP SALES

Name and Title

ATTEST:



Duncan Miller, Town Clerk

APPROVED AS TO FORM:



Andrew M. Miller, Town Attorney

## *System Pricing*







**communications**

Mobile-Vision, Inc.

Town of Paradise Police Department  
Paradise Valley AZ  
LT. Mike Cole

DATE 7/21/2014

Quotation # TBD

QTY	Loc #	DESCRIPTION	UNIT PRICE	AMOUNT
<b>ROADSIDE EQUIPMENT</b>				
1	1	LAASYLPR2850CM N Tatum & E McDonald-AlertVU 2 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 22,995.00	\$ 22,995.00
1	1	LAASYLPR1850CM N Tatum & McDonald-AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00
1	2	LAASYLPR2850CM E Lincoln & N 36th-AlertVU 2 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 22,995.00	\$ 22,995.00
1	2	LAASYLPR1850CM E Lincoln & N 36th-AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00
1	3	LAASYLPR2850CM Doubletree Ranch E of N Tatum-AlertVU 2 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 22,995.00	\$ 22,995.00
1	4	LAASYLPR2850CM E Lincoln & N Scottsdale-AlertVU 2 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 22,995.00	\$ 22,995.00
1	5	LAASYLPR2850CM McDonald & N Scottsdale-AlertVU 2 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 22,995.00	\$ 22,995.00



1	6	LAASYLPR1850CM	E Doubletree & N Scottsdale- AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00	
1	7	LAASYLPR1850CM	N 64th & E Camelback- AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00	
1	8	LAASYLPR1850CM	E Stanford & N 32nd- AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00	
1	9	LAASYLPR1850CM	E Stanford & N 40th- AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00	
1	10	LAASYLPR1850CM	N 40th south of E Stanford- AlertVU 1 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 15,995.00	\$ 15,995.00	
1	11	LAASYLPR2850CM	Tatum & Shea S/B- AlertVU 3 Camera Positional Array: L-3COM ALPR Camera(s), Integrated Processing Appliance, Nema Enclosure, Mounting Hardware and Cabling, AlertVU Application Software and Software License	\$ 31,995.00	\$ 31,995.00	
Roadside Equipment Costs -					\$ 258,935.00	
SERVER SOLUTION						
0	LASWRBOFSVR	AlertVU Back Office Management Application Software (enterprise license)		\$ -	\$ -	
0	LSMVDR605	SERVER HWR - Dual 2.4 GHz Intel Xenon E5- 2609 quad-core Intel processors, 8 GB RAM, 250 GB RAID 1 boot drive, 5TB RAID 6 storage disk configuration, dual 1000BaseT NICs, Red Hat Linux ES 5.7		\$ -	\$ -	
Total System Costs -					\$ -	
INSTALLATION						
200		Project Management Hours (initial project coordination)		\$ 50.00	\$ 10,000.00	
11		Roadside Equipment Installation (1 per Location)		\$ 5,200.00	\$ 57,200.00	
1		BT2 - DES/AlertVU Software Load, Configuration and Training		\$ 4,450.00	\$ 4,450.00	
Total Installation Costs -					\$ 71,650.00	
Delivery date to be scheduled					SUBTOTAL	\$ 330,585.00
					Shipping w/n the continental USA via UPS Ground	\$ 150.00





## WARRANTY INFORMATION

L-3 Communications Mobile-Vision, Inc. (L-3 Mobile-Vision) warrants the following products for the period indicated from defects in workmanship or materials:

- FLASHBACK In-Car video system hardware and components (1) Year
- CycleVision Motorcycle video system hardware and components (1) Year
- Interview room video system hardware and components (1) Year
- MV-1 Mobile Data Computer System (2) Years
- V-One Integrated Mobile Data Computer (3) Years
- Keyboard for MV-1 or V-One Mobile Data Computers (1) Year
- MobileVu Display (If purchased separately, (1) Year)
- AlertVu Automatic License Plate recognition hardware and components. (1) Year
- Digital Evidence Management System Software (1) Year
- Digital Evidence Management Hardware Solution (If Applicable) (1) Year
- Primera branded, DVD/Blu-ray Disc publisher (1) Year
- Rimage branded, DVD/Blu-Ray Disc publisher (1) Year

If a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, L-3 Mobile-Vision will either repair the defect at no charge, using new or refurbished replacement parts, or exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. A replacement product or part assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. The purchaser must return failed component(s) to the factory or a factory-authorized service center. Purchaser is responsible for shipment to L-3 Mobile-Vision and assumes all costs and risks. Return shipment to the Purchaser will be at L-3 Mobile-Vision's risk and expense. Note: L-3 Mobile-Vision's maximum reimbursement for return shipping shall not exceed UPS ground service rates.

Before you ship your product for warranty service, it is your responsibility to keep a separate backup copy of the system configurations and data. L-3 Mobile-Vision is not liable for any damage to or loss of any programs, data, or other information stored on any media. Recovery and reinstallation of system and application software and user data are not covered under this limited warranty.

Warranty excludes labor to diagnose components in vehicle and labor to remove or reinstall components in vehicle. Warranty does not extend to any devices in or of vehicle to which an L-3 Mobile-Vision component is mounted or connected. L-3 Mobile-Vision reserves the right to charge for repairs to correct damage resulting from abuse, improper installation, or extraordinary environmental damage to components during warranty period at rates normally charged for repairing such units not covered under warranty. L-3 Mobile-Vision will not be liable for any direct, indirect, consequential or incidental damages arising out of the use or inability to use this product.

L-3 Mobile-Vision does not warrant that the operation of the product(s) will be uninterrupted or error-free. As a further limit on warranty, and as an expressed warning, the user should be aware that harmful personal contact may be made with any devices mounted into a motor vehicle in the event of violent maneuvers, collisions, or other circumstances, even though said devices are installed and used according to instructions. Purchaser will determine and accept any risk involved with the installation and use of this product. L-3 Mobile-Vision specifically disclaims any liability for injury caused by contact with its products or components in all such circumstances.





The forgoing warranty is exclusive in lieu of all other warranties of quality, fitness, or merchantability, whether written, oral, or implied. Notwithstanding, if the contractual agreement under which this product has been purchased specifies different terms and conditions, those terms and conditions specified by such contract shall prevail. All maintenance and service will be performed by L-3 Communications Mobile-Vision, Inc., 90 Fanny Road, Boonton, NJ 07005 or, at the customer's choice, by an L-3 Mobile-Vision certified service center. *Note: It is the responsibility of the user to remove and return the component(s) requiring repair.* Warranty repairs require an RA (Return Authorization) number in order to be processed. This can be arranged by calling (800) 336-8475 or by completing a Return Authorization form on our website: [www.L-3Com.com/MV](http://www.L-3Com.com/MV)

THE LIMITED WARRANTY SET FORTH ABOVE IS L-3 MOBILE-VISIONS'S ONLY WARRANTY IN CONNECTION WITH L-3 MOBILE-VISION'S HARDWARE AND/OR SOFTWARE PRODUCTS. ALL OTHER WARRANTIES, WHETHER WRITTEN OR ORAL, EXPRESS OR IMPLIED, CONTRACTUAL OR STATUTORY, INCLUDING, BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED AND DISCLAIMED. IN NO EVENT SHALL L-3 MOBILE-VISIONS'S LIABILITY UNDER THIS WARRANTY EXCEED THE OBLIGATION TO REPAIR OR REPLACE, AT L-3 MOBILE-VISIONS'S DISCRETION, A WARRANTED PRODUCT, AND, WITHOUT LIMITING THE FOREGOING, L-3 MOBILE-VISION'S LIABILITY UNDER THIS WARRANTY SHALL NOT EXCEED THE COST OF THE COVERED PRODUCT.

**Compliance with U.S. Export Laws & Regulations:** When required by law, transactions which are subject to the Export Administration Act, 15 CFR – Export Administration Regulations, Arms Export Control Act, 22 CFR - International Traffic in Arms Regulations, and all other applicable U.S. Import/Export Laws and Regulations shall be adhered to without exception. Buyer shall not forward, redirect or re-export goods, data or information in violation of such laws and regulations. Seller shall be held harmless by Buyer in the event that any regulatory requirement may impact Seller's performance, price or schedule.

Warranty excludes the following:

- Intentional misuse or abuse
- Unauthorized maintenance
- Product or parts that have been modified to alter functionality or capability
- Data recovery resulting from hard drive failure
- Virus damage
- Data Migration
- Operational failure due to network or security changes
- Any networked component not provided by L-3 Mobile-Vision
- UPS Devices
- All consumable items
- Onsite service
- Damage caused by third party products and/or software
- Cosmetic damage that does not affect the functionality of the system
- Damage that occurs in shipment.

#### **VIDEO MANAGEMENT SOFTWARE (if applicable)**

L-3 Mobile-Vision warrants its video management system (DES) to be free from operational and material defects and covers all software updates for a period of one (1) year from original "implementation" date (the date that L-3 Mobile-Vision's Support Engineers performed onsite server installation, configuration, and training). If onsite implementation was not purchased with the server (typical of software-only products), the (1) year warranty commences on the original factory ship date. Software-only customers please see "END-USER LICENSE AGREEMENT and Limited Warranty". L-3 Mobile-Vision warrants that its video management systems are adequate in features and functions to facilitate the management of video for law enforcement purposes. L-3 Mobile-Vision will not be liable for any direct, indirect, consequential, or incidental damages arising out of the use or inability to use this product.

#### **VERSION SUPPORT**

We support the current and last two Major releases of DES and LPR software products

#### **VIDEO MANAGEMENT HARDWARE (if applicable)**





During the warranty period, L-3 Mobile-Vision agrees to repair or replace any video management system component (based on that component's availability) that fails due to defective materials or workmanship. Sole responsibility under this warranty shall be to repair, adjust, or replace (at L-3 Mobile-Vision's option and according to the manufacturer's warranty conditions) any software, equipment, and peripheral that is part of the originally installed system that fails during this period and is not subject to any of the exclusions listed herein. Equipment, peripherals, and software supplied by customer are excluded from coverage. In most instances, server hardware that requires Next Business Day Onsite Service will be coordinated through L-3 Mobile-Vision and provided by Dell Computer. The L-3 Mobile-Vision Technical Support Engineer will determine if an onsite service technician must be dispatched to support a qualified repair. For Next Business Day Onsite Service, a technician will typically arrive onsite the next business day. Generally, calls received by L-3 Mobile-Vision before 4:00 p.m. local (EST) will qualify for next-business day service, however, L-3 Mobile-Vision has no liability should the provider (DELL) postpone, cancel, or delay the service. In the event that additional parts/resources are required once the onsite technician is at the Customer's site, work may be temporarily suspended until the additional parts/resources arrive.

#### **NON-WARRANTY REPAIR WORK**

*Note: excludes RIMAGE, PRIMERA and DELL (server and storage) branded products as well as associated network (access points, switches, UPS) equipment. We will assist your agency in facilitating repairs for these products through the provider.*

The customer may return a product for repair that is not covered by warranty. A standard repair fee, specific to the product, is charged for any product that is repaired outside of the warranty period. Repairs performed on products out of warranty carry a 90-day warranty, which begins the day the repaired item is shipped back to the customer. For items classified as "No Trouble Found" (NTF): the customer is notified if, after examining and testing a returned product, L-3 Mobile-Vision concludes that the product is not defective. The product is returned at the customer's expense and the customer is charged a nominal examination and testing fee (Bench Fee) or the standard repair fee, whichever is less.

#### **SUPPORT**

Warranty repairs and support can be arranged by calling (800) 336-8475 between the hours of 8:00 a.m. and 5:00 p.m. EST or via e-mail at [DESSUPPORT.MVI@l-3com.com](mailto:DESSUPPORT.MVI@l-3com.com) (a valid warranty or extended maintenance agreement is required to receive technical support) where a ticket number will be designated and the issue assigned to a member of the support team. An authorized point-of-contact name and phone number will also be needed in case follow-up information is required. L-3 Mobile-Vision provides on-line diagnosis and support for our Back Office video management systems. Most service requests can be handled through this remote method. If the problem is determined to be related to any of the L-3 Mobile-Vision provided hardware, then L-3 Mobile-Vision will coordinate the service with the appropriate hardware provider and facilitate the fix or replacement. Should an agency not be able to, or prefers not to provide the support necessary for our technicians to repair the equipment remotely, onsite service may be required. L-3 Mobile-Vision does not guarantee a specific response time if onsite service is required. Your organization will be responsible for the cost of onsite service calls performed by L-3 Mobile-Vision. Please note: We will attempt to contact your representative (3) times. If we do not hear from your representative 24 hours after we place the 3rd call, the issue will be deemed resolved and we will close the ticket.

*Note: Some component parts are specifically designed for customer removal and replacement. If during troubleshooting the L-3 Mobile-Vision support engineer determines that a repair can be accomplished with such a part or component, L-3 Mobile-Vision will ship the component part directly to the customer. Unless otherwise noted, service parts will be shipped via ground freight service.*

*Service Level Objective: While L-3 Mobile-Vision does not guarantee resolution time, we strive to resolve all cases in a fast and efficient manner to ensure customer satisfaction.*

*Non-critical issues will be acknowledged within 1 business hour, Monday-Friday only, excluding holidays. Resolution will begin within 24 hours followed by on-going daily status updates until resolution is confirmed with the POC.*

*Critical Support issues (Priority 1) will be acknowledged within 1 business hour. Resolution will begin within 4 business hours followed by ongoing daily status updates until the resolution is confirmed with the POC. After-hours requests for critical support will be handled in the same manner. However, response will start within 4 hours of the call.*

*After hours/Holiday/Weekend support: If the request for a support call is made outside the aforementioned normal hours, a callback will be made no later than the next business day. If you have a Priority 1 issue, you will need to state the issue and severity in your e-mail or voicemail. Your issue will be escalated to the on-call Technical Support Engineer and will be addressed within (4) hours.*



## Support Classifications

**Priority 3** – Product feature and/or administration questions. Low severity.

**Priority 2** – Minor feature/product failure, convenient workaround exists. This may require servicing or repair of one or more components. If service or repair is required, we will issue an RMA number and instruct your representative to return the defective components to us or a designated service center or third party provider. Advance replacement of components will be at the discretion of L-3 Mobile-Vision.

**Priority 1** - Product or major feature failure or data corruption. The system is not operational or useable by your organization. Resolution times may vary depending on the nature of the problem and your representative's availability. We will continue to provide updates until the ticket is closed.

END OF DOCUMENT

